

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/015,449	12/12/2001		12/2001 Sheng-Dong Dunn		4582		
7	7590	04/01/2004		EXAMINER			
J.C. Patents, Inc. Suite 250				AGUIRRECHI	AGUIRRECHEA, JAYDI A		
4 Venture				ART UNIT	PAPER NUMBER		
Irvine, CA 92	2618			2834	<u></u>		
				DATE MAILED: 04/01/2004	1		

Please find below and/or attached an Office communication concerning this application or proceeding.

<i>a</i>	Application No.	Applicant(s)			
All claims being allowable, PROSECUTION ON THE MELE erewith (or previously mailed), a Notice of Allowance (PIOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CF. This communication is responsive to Response file. The allowed claim(s) is/are 1-5 and 11-15. The drawings filed on 12 December 2001 are access. Acknowledgment is made of a claim for foreign price a) All b) Some* c) None of the: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume 3. Copies of the certified copies of the priority docume 3. Acknowledgment is made of a claim for domestic price (a) The translation of the foreign language proving Acknowledgment is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for domestic proposed for the priority docume is made of a claim for foreign priority docume is made of a claim for foreign priority docume is made of a claim for foreign priority docume is made of a claim for foreig	10/015,449	DUNN ET AL.	DUNN ET AL.		
	Examiner	Art Unit			
	Jaydi A. Aguirrechea	2834			
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERI herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	TS IS (OR REMAINS) CLOSED in to DL-85) or other appropriate commure in TRIGHTS. This application is su	this application. If not inc nication will be mailed in o	luded due course. THIS		
1. \boxtimes This communication is responsive to <u>Response filed</u>	on 9/29/03.				
2. The allowed claim(s) is/are 1-5 and 11-15.					
3. The drawings filed on 12 December 2001 are accep	•				
4. Acknowledgment is made of a claim for foreign prior	ity under 35 U.S.C. § 119(a)-(d) or ((f).			
, — , — , —					
_ , , , ,					
					
		in this national stage app	lication from the		
	(a)).				
· ·					
· · · · · · · · · · · · · · · · · · ·	• •				
o. Acknowledgment is made of a claim for domestic price.	only under 35 0.5.C. 99 120 and/or	121.			
Applicant has THREE MONTHS FROM THE "MAILING DA below. Failure to timely comply will result in ABANDONME					
7. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) which give			or NOTICE OF		
8. CORRECTED DRAWINGS must be submitted.(a) including changes required by the Notice of Drawing	ftsperson's Patent Drawing Review	(PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No					
(b) including changes required by the proposed dra		• • • • • •			
(c) including changes required by the attached Exa	miner's Amendment / Comment or	in the Office action of Pap	per No		
Identifying indicia such as the application number (see 37 each sheet.	CFR 1.84(c)) should be written on the	drawings in the front (not	the back) of		
9. DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREMENT I	deposit of BIOLOGICAL MATER	RIAL must be submitted AL MATERIAL.	d. Note the		

Attachment(s)

1 Notice of References Cited (PTO-892)
3 Notice of Draftperson's Patent Drawing Review (PTO-948)
5 Information Disclosure Statements (PTO-1449), Paper No.
7 Examiner's Comment Regarding Requirement for Deposit

י ובי	iniormation Disclosure Statements (PTO-1449), Paper No
ا 🔲 ا	Examiner's Comment Regarding Requirement for Deposit
(of Biological Material

2	Ν	lotice	of	Informal	Patent	Α	pp	lica	ation	(P	TO-15	2)
. —				_					_			

4	Interv	iew	Sι	ımmar	y (P1	ГО-413),	Paper No	٠.
\sim	_							

6⊠ Examiner's Amendment/Comment

8⊠ Examiner's Statement of Reasons for Allowance

9 Other

Application/Control Number: 10/015,449 Page 2

Art Unit: 2834

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jiawei Huang on 3/30/04.

The application has been amended as follows:

- In claim 12, change the dependency to claim 11.
- In claim 13, change the dependency to claim 11.
- In claim 14, change the dependency to claim 11.
- In claim 15, change the dependency to claim 11.

Allowable Subject Matter

2. Claims 1-5 and 11-15 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record teaches an underwater wide-band electro-acoustic transducer comprising a plurality of individual ceramic transducer cylinders that are axially and concentrically arranged. The prior art of record fails to disclose either alone or in obvious combination a plurality of groups of piezoelectric ceramic units wherein each group of piezoelectric ceramic units has a different dimension and separated from each other by different distances.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Application/Control Number: 10/015,449 Page 3

Art Unit: 2834

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jaydi A. Aguirrechea whose telephone number is 571-272-2018.

The examiner can normally be reached on M-Th 9-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Darren E. Schuberg can be reached on 571-272-2044. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jaa

3/30/04

PRIMARY EXAMINER